DP901-V02



PRODUCT DESCRIPTION



- 1 Load output connection screw (M5) terminals
- 2 Indication area for product label or markings
- 3 Control input voltage LED indicator
- 4 Control input connection screw (M4) terminals

SPECIFICATION

INPUT

 Control Input Voltage 	: 4 - 32VDC
Nominal input impedance	: 2k Ohms
 Must operate voltage 	: 4VDC(Max)
Must release voltage	: 1VDC(Min)
Maximum turn-on time	: 1/2 cycle + 1ms
 Maximum turn-off time 	: 1/2 cycle + 1ms
 Zero crossing turn-on 	: Available
Reverse voltage protection	: Available
OUTPUT	
 RMS on-state current(I_τ) 	: 40A / 25A
Load voltage range	: 24-330VAC
Minimum load current	[:] 100mA
 Off-state leakage current 	: 10mA max(at 330VAC)
On-state voltage drop	: 1.5V(RMS)max
Operating frequency range	: 47 - 63Hz
Minimum power factor	: 0.5

- Minimum power factor
- Repetitive peak Off-state
- Voltage(V_{DBM}) : 800V
- Non-repetitive peak On-state Current(I_{TSM}) :400A

:250A

: 500 V/µS

- For I_T = 40A For $I_{\tau} = 25A$
- · Rate of rise of Off-state
- Voltage(dv)

General specification

- Dielectric strength
- Ambient temperature

- Ambient humidity RSS-TD1A140ZP/RSS-TD1A125ZP Pollution dearee **Operating Instructions** Installation category
 - Dimensions(Ixwxh)mm Mounting type
 - : Panel : For heater control or resistive
 - Approx 87 g & slightly inductive load

: 93% non-condensing

: 44.5 x 57.5 x 27.3

ORDER CODE INFORMATION				
Product	Max Load Current	Max Load Voltage	Certification	
RSS-TD1A140ZP	40A	24-330VAC	-	
RSS-TD1A125ZP	25A		_	

: 11

: 111

WARNING

WARNING :

- Minor human hazard by electric shock may occasionally occur
- · Minor hazard by burns may occasionally occur.
- · Heat sink must be used when SSR has to switch a load current above 4A.
- · Heat sink must be connected to ground in the end product.

CAUTION

CAUTION :

- Disconnect all power supply before servicing equipment. · Do not touch the SSR or the heat sink either while the power supply is ON or immediately after the power is
- turned OFF. The SSR and the heat sink may be hot. · Do not touch the SSR main circuit terminals immediately
- after the power is turned Off. The internal snubber circuit is charged. SSR may occasionally rupture in case of short circuit. To
- protect against short-circuit accident, install a protective device, such as a quick-burning fuse or a circuit breaker. · Never touch the terminals of the SSR while the power supply is turned ON.

SAFETY PRECAUTIONS

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the Instrument.

Mounting

- Mount SSR in the orientation such that the heat sink fins are always positioned in vertical orientation in order to ensure proper heat ventilation & do not obstruct air flow to the SSR heat sink. Air convection for SSR is necessary.
- · If a material with high thermal resistance is used for heat sink,heat generated by SSR may occasionally cause fire or burning.
- · When installing SSR directly into a control panel such that the panel can be used as a heat sink, use a panel material with low thermal resistance such as Aluminium / Steel.
- Tighten the SSR screws securely. Loose terminals generate abnormal heat which may result in fire.

WIRING

Product

RSS-TD1A140ZP

RSS-TD1A125ZP

WIRING GUIDELINES

of wire may cause burning.

electric shock.

terminations.

result in fire.

3 to 6 months.

fire



Ensure the use of proper cable sizes. Abnormal heating

· Do not use wire with broken sheaths. It may cause

· Use cable with crimp terminals of appropriate size for

· Heat generated by incorrect terminations may result in

Loose terminals generate abnormal heat which may

Tighten screws to the specified torque. Re-tighten after

48 hours to minimize wire cold flow. Re-torque every

Be sure to conduct wiring with power supply turned off.

· Always use SSR within its rated specifications, otherwise

Select a load within the rated range.Inappropriate load

· Select the power supply within the rated frequency range.

Inappropriate power frequency may cause misoperation,

malfunction, damage or fire may result.

may cause misoperation, trouble or burning.

TIGHTENING TORQUE

1.2N-m

2.0N-m

Touching the terminals when they are charged may

· When tightening terminal screws ensure no non-conductive foreign matter is caught in screw.

occasionally result in minor electric shock.

TIGHTENING TORQUE

SCREW SIZE

M4 screws(Control Input)

M5 screws (Load Output)

USAGE

trouble or burning.

(1) Suitable Fuse

45A Class J

30A Class J

Use of SSR in domestic environments may cause radio interference, in this case the user may be required to employ additional mitigation methods.

DIMENSION(mm)



DERATING CURVE



Ambient temperature [°C]

Note.: Heat sink used with a radiation efficiency of 1 °C/W

(Specifications are subject to change, since development is a continuous process.)

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for 1min : Operating : - 30 °C to 80 °C Storage : - 30 °C to 100 °C

: 4000VAC,50/60Hz

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 Product Weight Product Application